

SEP 21 2009

Appl. No. 10/553019

Reply to final Office Action dated 5/20/2009

**AMENDMENTS TO THE SPECIFICATION**

Please replace in the Specification, the paragraph starting on page 4, line 21 and ending on page 5, line 9 with the following:

In the technical program of this invention the optimized proportion of long-chain nylon in the total weight of toughened nylon is 6-25%. The cyclic lactam monomer is selected from one or more following monomers: butanolactam, pentanolactam, hexanolactam, heptanolactam, octanolactam, nonanolactam, decanolactam, undecanolactam, dodecanolactam, N-methyl hexanolactam, N-n-octyl nonanolactam, N-t-butyl dodecanolactam; the corresponding amino acid is  $\omega$ -amino butanoic acid,  $\omega$ -amino pentanoic acid,  $\omega$ -amino hexanoic acid,  $\omega$ -amino ~~heptanoic~~ heptanoic acid,  $\omega$ -amino octanoic acid,  $\omega$ -amino nonanoic acid,  $\omega$ -amino decanoic acid,  $\omega$ -amino undecanoic acid or  $\omega$ -amino dodecanoic acid; the said long-chain nylon is selected from one or more following nylons: nylon-1010, nylon-1111, nylon-1212, nylon-1313, nylon-46, nylon-66, nylon-610, nylon-612, nylon-613, nylon-1011, nylon-1012, nylon-1213, nylon-8, nylon-9, nylon-11, nylon-12, nylon-13, poly(2,2,4-trimethyl hexamethylene terephthalamide) ~~poly(terephthaloyl-2,2,4-trimethyl hexamethylene diamine)~~, poly(3-t-butyl-hexanedioyl heptamethylene diamine), co-condensation nylon 6/7, co-condensation nylon 6/10, co-condensation nylon 6/12, co-condensation nylon 6/13, co-condensation nylon 10/11, co-condensation nylon 10/12, co-condensation nylon 12/13, nylon-6T and nylon-10T.

Please replace in the Specification, the paragraph starting on page 8, line 1 and ending on page 8, line 16 with the following:

The said cyclic lactam monomers include butanolactam, pentanolactam, hexanolactam, heptanolactam, octanolactam, nonanolactam, decanolactam, undecanolactam, dodecanolactam, N-methyl hexanolactam, N-n-octyl nonanolactam and N-t-butyl dodecanolactam, but hexanolactam is preferred; the said corresponding amino acids include  $\omega$ -amino butanoic acid,  $\omega$ -amino pentanoic acid,  $\omega$ -amino hexanoic acid,  $\omega$ -amino ~~heptanoic~~ heptanoic acid,  $\omega$ -amino octanoic acid,  $\omega$ -amino nonanoic acid,  $\omega$ -amino decanoic acid,  $\omega$ -amino undecanoic acid or  $\omega$ -amino dodecanoic acid. The matrix nylon may be prepared by the homopolymerization of any cyclic lactam monomer or its corresponding amino acid, such as nylon-4, nylon-5, nylon-6, nylon-7, nylon-8, nylon-9, nylon-10, nylon-11 and nylon-12. The matrix nylon may also be

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prepared by the copolymerization of any cyclic lactam monomer or its corresponding amino acid, such as co-condensation nylon 4/6 (which may be prepared by the condensation polymerization of  $\omega$ -amino butanoic acid and  $\omega$ -amino hexanoic acid), co-condensation nylon 6/10, co-condensation nylon 6/9 and co-condensation nylon 6/12.